Info-Hams Digest   Mon, 11 Jan 93   Volume 93 : Issue   47

Today's Topics:
                    1200Mhz is not a microwave band!
                     Aluminum tubing availability?
                       ARRL 10 meter preamp help?
                            baycom interface
                    DX Bulletin #94 January 11, 1993
                            Grove 800 number
                          How to get started?
                          IC-22U Modifications
                       Info-Hams Digest V93 #46
                     intermod, overload, desense?
                            License Delays
PC repeater controller (WAS Re: WANTED: Repeater controller comments)
                  Seoul, Korea area electronics stores
                         The correct news group
                               YX0AI

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: 11 Jan 93 16:22:59 GMT
From: opel!slc1!vk2bea!michael@uunet.uu.net
Subject: 1200Mhz is not a microwave band!
To: info-hams@ucsd.edu

In article <9301051454.AA02438@tix.timeplex.com> taylor@tix.timeplex.COM (Seth
Taylor) writes:
>Since so called "microwave ovens" operate in the UHF designation

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>frequency range why don't we call them a "UHF" ? Think about that
>one.
>
>Seth T. KC2WE

Eh?  2450 MHz sounds like S-band microwave to me!

--
Michael Katzmann                 >   Broadcast Sports Technology Inc.
~~~~~~~~~~~~~~~~                 <    Crofton, Maryland. U.S.A
Amateur Radio Stations:          >
NV3Z / VK2BEA / G4NYV / AAR3VK   <    opel!vk2bea!michael@uunet.uu.net
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Date: Mon, 11 Jan 1993 14:39:13 GMT
From: sdd.hp.com!col.hp.com!fc.hp.com!jayk@network.UCSD.EDU
Subject: Aluminum tubing availability?
To: info-hams@ucsd.edu
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Texas Towers has recently started selling aluminum tubing. They had a ad
in some recent issues of CQ listing some of the sizes available. They seem
to carry most everything you would need for standard yagi construction.

73, Jay K0GU   jayk@fc.hp.com

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Date: Mon, 11 Jan 1993 14:35:23 GMT
From: swrinde!zaphod.mps.ohio-state.edu!pacific.mps.ohio-state.edu!linac!att!
cbnewsm!cbnewsl!att-out!cbfsb!cbnewsf.cb.att.com!5rtrtrt@network.UCSD.EDU
Subject: ARRL 10 meter preamp help?
To: info-hams@ucsd.edu
```

In article <1993Jan5.160549.3344@nntpd2.cxo.dec.com>, little@nuts2u.enet.dec.com
(nuts2u::little) writes:
> I can peak the variable capacitor, but find very little change in signal
> strength when adjusting the slug tuned coil. The coil is one I wound
> myself on a form a salvaged from another coil.
> Todd N9MWB

Todd,
I have built that type of circuit. VERY likely, your coil is not resonant.
If you could put a variable cap across it, tweak the cap, and look for
resonance. If that doesn't work, take some turns off and try again until
it peaks.

How's the voltage supply? You getting some current flowing? (measure

voltage across the source resistor to check).

If this doesn't work, let me know and I'll mail you a coil that
DOES resonate. Pop it in and away you go, but you'll miss out
on all the fun that way!!

Rick   KT2Q

Date: 11 Jan 93 10:46:20 GMT
From: mcsun!sun4nl!tuegate.tue.nl!svin09!wsinti01!pp@uunet.uu.net
Subject: baycom interface
To: info-hams@ucsd.edu

Hi,

Can anybody tell me if there is a description of the interface that
the TSR program "l2" uses. This TSR is used in the baycom packet radio
program. I suppose interfacing is done using interrupts.
I don't know if this interface is available, and would appreciate
some pointers, or at least to be sure of the program interface
availability.

Peter.

--
Peter Peters	UUCP : pp@win.tue.nl
Eindhoven University of Technology (TUE)	PHONE : +31-40-474120
Dept. of Mathematics and Computer Science	FAX : +31-40-463992
Disclaimer : I said WHAT ???	VHF : pa0ppe

Date: 11 Jan 93 13:29:31 GMT
From: news-mail-gateway@ucsd.edu
Subject: DX Bulletin #94 January 11, 1993
To: info-hams@ucsd.edu

The Ohio/Penn Dx PacketCluster
DX Bulletin No. 094 (OPDX.094)
January 11, 1992
Editor Tedd Mirgliotta, KB8NW
Provided by BARF-80 BBS Cleveland, Ohio
Online at 216-237-8208 14400/9600/2400/1200/300 8/N/1

Thanks to the Northern Ohio Amateur Radio Society, Northern Ohio DX

Association, Ohio/Penn PacketCluster Network, K4CEF & Southeastern
Cluster Group, N4DUG, WA4JQS, K6OZL, N6QHO, KF8VW, NW8F, W8XD, K8YVI
and K9AJ for the following DX information.

THE BUS STOPS HERE! It has been reported on CNN Headline News that the
Hungarian's bus (HA5BUS group) has been impounded in Longbeach, CA. for
lack of $7000.00 to pay the shipping fee. The three Hungarians had
started out 15 months ago on an around the world tour to show off
Hungarian products, but their sponsor went bankrupt. If they do not
come up with the money by the end of the month, the bus will be auctioned
off.

3Y, BOUVET ISLAND. It was reported in the VK2SG RTTY DX Notes to be
on the lookout for news of a possible operation from Bouvet Island
sometime in April-May 1993, by Russians and others signing 3Y/R0L.

3Y, PETER I ISLAND. Tony, WA4JQS (one the ops of VP8SSI), has stated that
they have 2/3's of the required approvel to land on Peter I Island and
hope to have the other required 1/3 by the weekend (10 Jan.). The group
is looking for an early 1994 landing.

5R, MALAGASY REP. JE8XRF is currently QRV from Reunion, and mentioned
today that he plans to be in Malagasy Rep. in about 10 days. He hedged
a little when asked about plans to operate, but it bears watching.
Meanwhile, there is still operation from here by 5R8DG (ex-5R8GW).

D2, ANGOLA. Elliot, N6QHO, informed OPDX that he will be returning to
Angola, January 17th. He will be signing N6QHO/D2 as before, and plans
to be active on the following frequencies: between 28460 and 28500 kHz
on Sundays after 1500z and during the week after 1800z on 10 thru 20
meters. Elliot stated that he has submitted his paperwork to the ARRL
and they told him he is good for DXCC. QSL via his homecall.

DXCC BACKLOG. Stan, K8YVI was told by Paul, KB1BE, that the DXCC is
working on early August submissions. (BRAVO.... Sounds like adding the
second shift is helping tremendously.)

KH1, HOWLAND ISLAND (UPDATE). The following information has been supplied
by Mike McGirr on the DXpedition to Howland Island scheduled to begin
around January 28th: "We are pleased to announce the frequencies that
we plan to use during our upcoming DXpedition to Howland Island:

 CW: (QSX up) 28023, 24893, 21023, 18073, 14023, 10103, 7023, 3503, 1833

 SSB: 28475   QSX 480-500
         24935   940-950
         21295   300-310
         18115   120-130

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        14195           200-210 (generals 240-250)
         7080           230-240 (Europe above 080)
         3795           3800-3810;  3635-3650

 RTTY:   28085     QSX up 5
         24925         "
         21085         "
         18105         "
         14085         "
          7085         "        &     7040
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   "Please see the accompanying page taken from our DXpedition Operator's
Guide that describes our planned station set-up. The inverted-L for
160 referred to in the text is the Battle Creek Special vertical. *"

   The vessel " Machias" is loaded and will sail from Honolulu on Friday,
Jan 8. I plan to send a last-minute FAX from Honolulu before we leave
for Christmas Island on Jan 19. .... 73's, Mike, K9AJ
enclosure: page 12 of Howland-93 Operator's Guide. *
   This is from the KH1/93 --- Operator's Manual (page 12): "We will have
four HF station setups, plus VHF and satellite. There will be two widely
separated HF station sites, one primarily for SSB and one primarily for
CW. We hope to be able to operate SSB and CW on the same band without
serious interference problems. Of course, we will be operating from each
of the locations on two different bands simulteneously. The problem of
inter-station interference will be significantly reduced by the
mono-banders, which will more effectively reject signals on other
frequencies than tri-banders that are typically used. We will also be
using band-pass filters and tunable filters to further reduce
inter-station interference."
   "Each station location will have two station positions, each with a
fully filtered Kenwood transceiver and an Alpha 89. The SSB station will
have an HF6V for 80-10 meters. It will also have mono-band yagis for 10,
15, and 20 meters on two separate masts, and a WARC band beam on a third
mast. The CW station will also have mono-band yagis. We will also be
installing a pair of phased Butternut HF2V verticals on 80m (with top
loading) and another pair on 40m which will give us 4dB of gain to Europe.
An inverted "L" will also be installed for 160. The vertical ground system
for each vertical will consist of several hundred square feet of chicken
wire in a square, augmented by a 3ft square of aluminum at the base of
each antenna. We also have a mile of magnet wire to lay out as radials
for 80m and 160m - something to do in your spare time."
  "All station positions will have laptop computers for real-time logging.
The computer at one of the CW positions will also be equipped for RTTY. We
will be patching the Kenwoods into the computers, so that band tracking
will occur automatically. Each station position will have a Dx-edge
grey-line map, so you can keep track of the grey line despite your
disorientntion at being in a different part of the world! Special
headphones have been customized that incorporate the Heil element and

also cut out ambient noise muff-style phones. These stations should be a
lot of fun to operate."
   "Power will be provided by 4-Yanmar diesel generators, each with over
3Kw of power capability. One of our sponsors is Panamax, who will be
providing line voltage protection for all of our sensitive equipment.
Their sister company is providing our hi-tech water bottles."

J5, GUINEA-BISSAU. Mark, J5UAI, will be returning to J5-land on January
17th. He will be taking with him a new tri-band beam, amplifier and a
Kenwood TS 430 plus RTTY gear. He plans operations on RTTY/CW/SSB. Mark
has been at home in the states for a 6 week vacation. He will be in J5
until June of 1994. QSL via NW8F.

VU7, LACCADIVES. A DXpedition to the Laccadive Islands is being planned
with the tentative dates of activity being January 13 to 19. There is
also a possibility of an extension. The operators are VU2SF, VU2API and
VU2LZ. Operation will be on 10-80M , but no WARC band activity is currently
planned. QSL to P.O. Box 41366, Nashville, TN 37204. This info from W2XP
on the Nashville Cluster.

YX0AI CARDS. The INDEXA net has mentioned that there is now a stateside
address that you can send for the YX0AI cards (if you have not received
one yet). This is a stateside mail drop off, so postage IRCs or
greenstamps are still required because the QSL cards still come from
Venezuela. Send to: YX0AI-YV5ARV
                    3180 Leewood Terrace, L-208
                    Boca Raton, FL 33431

W1YL/4 NEW ADDRESS. Ellen White (W1Yl) and her husband Bob (W1CW) are
now living in a new house near Tampa, Florida. Their last home was
destoryed by the hurricane this past year. Ellen conducts the section
in QST magazine called "How's DX?". Their new address is: 6607, Flicker
Court, Seffner, FL 33584.

NOW FOR THE BAD NEWS!!! Do to a major computer malfuncation, ballots that
were saved to a file were lost. The only ballots that were not lost were
the ones mailed and the optional PacketCluster Sysop questions. PLEASE,
PLEASE, PLEASE, R E S E N D YOUR BALLOTS and your comments. The comments
were great this year. The deadline has been moved to February 28. SO PLEASE
KEEP THOSE BALLOTS COMING! Ballots for the Second Annual OPDX/NODXA DX
Survey can be found in OPDX.088. Ballots can be sent to the following
packet and online addresses listed below.

FAX YOUR DX INFORMATION NOW! This is just in the testing stage, but faxing
will be available Monday/Wednesday/Friday from 0430 to 2030z only. The
number is 216-237-2816 and operates only Class 2 Fax. Use only the dates
and times specified because this is not a dedicated line.

Excerpts and distribution of The OPDX Bulletin are granted as long as
OPDX/BARF80 receive credit. To contribute DX info, call BARF-80 BBS
online at 216-237-8208 14400/9600/2400/1200/300 and leave a message with
the Sysop or send InterNet Mail to: aq474@cleveland.freenet.edu or send
BitNet Mail to: aq474%cleveland.freenet@cunyvm or send PRODIGY Mail to:
DFJH48A or send a message via packet to KB8NW @ WA8BXN.OH.USA.NA

     73 -- marty -- nr3z   skitch@nadc.navy.mil

Date: 11 Jan 93 13:48:02 GMT
From: news-mail-gateway@ucsd.edu
Subject: Grove 800 number
To: info-hams@ucsd.edu

Anyone know the 800 number for Grove Enterprises?   Thanks!

Dave
N2RTU

Date: Mon, 11 Jan 93 15:31:07 GMT
From: qualcom.qualcomm.com!walter!porthos!dancer!whs70@network.UCSD.EDU
Subject: How to get started?
To: info-hams@ucsd.edu

In article <#-41H1euzb@atlantis.psu.edu> CLF@ECLX.PSU.EDU (Christopher L Frame)
writes:
>   I'm interested in how to get started with a ham-radio. I don't own
>one, but have recently discovered a reason for getting one.
>   Anyone have any suggestions on what I should purchase? I don't want to
>shell out ALOT of money, so a generic system is fine.
>   My only requirement is that I be able to communicate over a distance of
>no less than 200 miles.

Without knowing more about how far exactly, time of day, local terrain,
etc. it would be very difficult to make a suggestion at this point. Also,
there's a great price range of available equipment, so your budget
constraints would be helpful.

Now unless you have very high possibilities for antennas,
your minimum needs will probably require operation in the HF frequency
bands which requires a Novice license at the minimum.

>   I also heard that a ham license is required. How much is it?

As above, you'll need a Novice license. The issue isn't cost (free), its
the time and effort you'll need to pass the test required to obtain the
license. If you have even a mundane science background, the "theory"
part of the novice test shouldn't take more than a cursory review, but
you'll also need to study the federal regulations aspect of the license
test also. Additionally, the Novice license requires passing a 5 word
per minute morse code test (5 wpm = 25 characters a minute).

For more information, pick-up one of the Amateur Radio License manuals
available at most Radio Shack stores or call an order "Now You're
Talking" from the Amateur Radio Relay League (ARRL is the US organization
of hams) at 203-666-1541.

One note - You don't indicate what you need to communicate the 200+
miles for. Please be aware that Amateur Radio can NOT be used for
commercial purposes.

Date: 11 Jan 93 17:03:57 GMT
From: news-mail-gateway@ucsd.edu
Subject: IC-22U Modifications
To: info-hams@ucsd.edu

Does anyone have information of modifying an ICOM IC-22U
for operation out of band for MARS (AF) and CAP?

Date: 11 Jan 93 12:53:34 GMT
From: news-mail-gateway@ucsd.edu
Subject: Info-Hams Digest V93 #46
To: info-hams@ucsd.edu

UNSUB INFO-HAMS

Date: 11 Jan 1993 16:41:58 -0000
From: pipex!warwick!warwick!not-for-mail@uunet.uu.net
Subject: intermod, overload, desense?
To: info-hams@ucsd.edu

In article <1993Jan9.141959.17257@ke4zv.uucp> gary@ke4zv.UUCP (Gary Coffman)
writes:

[.......]

>If you want to build a notch filter, install a Tee in your
>antenna feedline, attach the feedline to an FM broadcast
>receiver, and attach a length of coax to the odd leg that
>is slightly more than a quarterwave at the offending
                            ^^^^^^^^^^
>station's frequency. Short this cable at it's free end.
                            ^^^^^
>
>Ant----------T-------radio
> |
> |
>   short

Seems to me that it's an open-circuited quarter wave stub that's needed.
In the diagram above, the short would be transformed by the quarter wave
section to look like an open circuit at the tee, and therefore little
effect at the frequency it's cut for would result. If it was open circuit
at the far end, it would transform to a short at the tee end, however.
If it were a half wave in length, you'd want it to be shorted.
Velocity factor of the cable needs to be taken into account, of course.

>Gary

Simon Browne (G0GWA)
Engineering Dept
Warwick University, UK

Date: Mon, 11 Jan 1993 13:58:04 GMT
From: usc!cs.utexas.edu!convex!news.utdallas.edu!corpgate!brtph560!nrtpa038!
harp@network.UCSD.EDU
Subject: License Delays
To: info-hams@ucsd.edu

In article <Pine.3.05.9301101152.A27815-9100000@uafhp.uark.edu>
plaws@uafhp.uark.edu (Peter Laws) writes:
>Ya know, maybe if we paid more than $0.56/yr for our licenses...

>BUT WAIT!
>The FCC doesn't even get that!!!!!!! That goes to the _volunteer_
>examiners. The _paid_ FCC gets NOTHING. Nothing but headaches from WHINY
>hams.

>It's a wonder we get any allocations.

>Here's to a $50, 10 year ticket...

>Peter

>Peter Laws|GEnie:P.LAWS1|"The '90s are gonna make the '60s|plaws@uafhp.uark.edu
>n5uwy@ka5bml.ar.usa.noam| look like the '50s" --D. Hopper|plaws@uafsysb.bitnet

WAAAAITAAAAAMIIINUTTTEEE!
The FCC gets paid. Paid very well.   If not by money we pay in taxes
then by money that is borrowed that we pay the interest on. Government
agencies like the FCC can't operate on fees they charge. Cheesh don't
tell me the FCC doesn't get paid. Just remember that some of what is
being taken out of your pay check goes to them regardless of there doing
any service for you.

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****************************************************************************
* Alan Harp K4PB    *     Bell-Northern Research      *   CW FOREVER     *
* mail: harp@bnr.ca *   Research Triangle Park, NC   *                  *
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Date: 11 Jan 93 15:09:12 GMT
From: spsgate!mogate!newsgate!usenet@uunet.uu.net
Subject: PC repeater controller (WAS Re: WANTED: Repeater controller comments)
To: info-hams@ucsd.edu

Steve makes some valid points about the ruggedness required of repeater
controllers for machines in remote and/or hostile environments. However,
where the environment is not so hostile, it is easy to come up with a
usable controller using almost any computer. I built one for my back-yard
machine using an old Motorola 6800 evaluation board. It performs all the
basic functions...CW ID, time-out timer, courtesy beep...in a program that
assembles into about 300 bytes. It would be fairly simple to add control
functions, autopatch, etc. A PC would be overkill but could certainly be
used. BTW, the 93 ARRL Handbook has flow charts for a full-function
microprocessor driven repeater controller.

73...   Mark KG7JL

Date: 11 Jan 93 16:46:39 GMT
From: noc.near.net!nic.umass.edu!m2c!jjmhome!km3t@uunet.uu.net
Subject: Seoul, Korea area electronics stores
To: info-hams@ucsd.edu

A friend of mine is planning on travelling to Seoul, South Korea some time
this coming summer. He is an electronics enthusiast and a shortwave listener

(SWL) and he would like to know what sort of electronics stores are in the
Seoul area. He has never been there before and is just looking for some
pointers on where to concentrate on. He also may be interested in purchasing
a PC so any pointers on computer stores would be helpful also.

Thanks in advance for any info....
--
Dave Pascoe | Internet: km3t%jjmhome@stratus.com
KM3T | km3t@jjmhome.UUCP

Date: 11 Jan 93 15:26:19 GMT
From: idacrd!n4hy@princeton.edu
Subject: The correct news group
To: info-hams@ucsd.edu

This is a dead newsgroup. Please subscribe to rec.radio.amateur.misc
where stuff like FAQ, etc. are discussed.

The relevant newsgroups are`

rec.radio.amateur.misc
rec.radio.amateur.packet
rec.radio.amateur.policy
rec.radio.swap
rec.radio.shortwave

Bob

Date: Mon, 11 Jan 1993 14:29:36 GMT
From: sdd.hp.com!col.hp.com!fc.hp.com!jayk@network.UCSD.EDU
Subject: YX0AI
To: info-hams@ucsd.edu

I finally received my YX0AI cards last Friday. So it seems that the cards
are still slowly coming out.

73, Jay K0GU   jayk@fc.hp.com

Date: 11 Jan 93 08:27:42 CST
From: timbuk.cray.com!walter.cray.com!ferrari!jwl@uunet.uu.net
To: info-hams@ucsd.edu

References <726395684.AA03614@tdkt.kksys.com>, <1im183INNh74@darkstar.UCSC.EDU>, <PHR.93Jan10235059@napa.telebit.com>p
Reply-To : jwl@ferrari.cray.com (Jim Lynch)
Subject : Re: Cq Rtty experts...

In article <PHR.93Jan10235059@napa.telebit.com>, phr@telebit.com (Paul Rubin)
writes:
>In article <1993Jan9.085756.1@ualr.edu> mauldin@ualr.edu writes:
>
>   > Does anybody know of anything simpler? I looked at HAMCOM, but gee it does
>   > its own modem and a lot of other stuff that I don't want. All I want is
(stuff deleted)
>
>Um, don't you also need to reprogram the PC's uarts to read the
>5-bit characters, if this is even possible? If not, you might
>be able to hack up something where you read the rtty levels through
>the status bits of the parallel port. You'd have to do your own
>UART in software, with precise timing loops etc. but this is
>a well known technique.

The 8250, used in the earlier pc clones and real machines has a 5 bit word
length option. It also supports 1.5 stop bits in the 5 bit word length.
I can only assume that the later chips also support 5 bits, but I don't have
any spec sheets on them.

Jim.
--

Jim Lynch, Sales Analyst, Cray Research, Inc. / ARS: K4GVO
Southeast District, Phone: (404) 631-2254, Email: jwl@sedist.cray.com
Suite 270, 200 Westpark Drive, Peachtree City, GA 30269

Date: 11 Jan 1993 08:14:40 -0500
From: noc.near.net!genrad.com!genrad.com!not-for-mail@uunet.uu.net
To: info-hams@ucsd.edu

References <9301071442.AA22065@ucsd.edu>, <1993Jan9.020216.6591@pro-
haven.cts.com>, <1993Jan09.145656.6898@uhura.neoucom.edu>
Subject : Re: License delays

In article <1993Jan09.145656.6898@uhura.neoucom.edu> wtm@uhura.neoucom.edu (Bill
Mayhew) writes:
>Amateur licenses are processed by two workers at the FCC. All
>applications are processed in serial order. Applications are
>processed on Tuesdays and mailed on Thursdays. As of December 28,
>1992, the FCC estimated 12 to 14 week processing delay after

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>applications are received.
>
>VECs have 10 days to process applications and forward to the FCC.
 ^^^^^^^^^^^^^^^^^^

This is correct, but only partially.  The VEs have 10 days to get the
paperwork to the VECs.  The VECs have another 10 days to get the paperwork
to the FCC.

In most cases, VEs and VECs do NOT make use of the full 10 days.  These
are just maximums.


Diana


--
->Diana L. (Syriac) Carlson dls@genrad.com    Ham: KC1SP (Sweet Pea)     <-
->I'D RATHER BE FLYING! P-ASEL, INST      CAP: CPT, Freedom 690 Mobile<-
->AD ASTRA, PER ASPERA              Airplane: C-172 N6513E
          <-
->GenRad, MS/6, 300 Baker Ave, Concord, Mass.  01742  (508)369-4400 x2459   <-

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End of Info-Hams Digest V93 #47
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